

10/520333

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/520,333  
Source: Py/10  
Date Processed by STIC: 1/13/05

**ENTERED**



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/520,333

DATE: 01/13/2005  
TIME: 17:18:01

Input Set : A:\082368-002100US.txt  
Output Set: N:\CRF4\01132005\J520333.raw

4 <110> APPLICANT: The Kitasato Institute  
 5 Motokawa, Kenji  
 6 Kusuvara, Hajime  
 7 Koyama, Hiroyuki  
 8 Hohdatsu, Tsutomu  
 9 Arai, Setsuo  
 11 <120> TITLE OF INVENTION: FELINE INFECTIOUS PERITONITIS VACCINE  
 14 <130> FILE REFERENCE: 082368-002100US  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/520,333  
 C--> 16 <141> CURRENT FILING DATE: 2005-01-04  
 16 <150> PRIOR APPLICATION NUMBER: PCT/JP03/08524  
 17 <151> PRIOR FILING DATE: 2003-07-04  
 19 <150> PRIOR APPLICATION NUMBER: JP 2002-196290  
 20 <151> PRIOR FILING DATE: 2002-07-04  
 22 <160> NUMBER OF SEQ ID NOS: 8  
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 1134  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Feline infectious peritonitis virus  
 31 <400> SEQUENCE: 1  
 32 atggccacac agggacaacg cgtcaactgg ggagatgaac cttccaaaag acgtgatcgt 60  
 33 tctaactctc gtggtcggaa gaataataat atacctctt cattcttcaa ccccaccacc 120  
 34 ctogaacaag gagctaaatt ttggtatgtta tgtccgagag actttgttcc caagggata 180  
 35 ggttaataagg atcaacaaat tggttattgg aacagacagg cgcgcattcg cattgtcaag 240  
 36 ggtcagcgta aggaactccc tgagagatgg ttttctatt tcttaggtac aggacctcat 300  
 37 gctgatgcta aatttaaga taagattgtt ggagttctt gggttgcaaa ggtatgggcc 360  
 38 atgaacaacg caacatcaact tggcactcgt ggaaccaaca atgaatccga accattgaga 420  
 39 tttgatggta agataccacc acaaattccag cttgaagtaa accgttctag gaataattca 480  
 40 aggtctggtt ctcagtcgt atctggctca agaaacaggt ctcaatccag gggaaagacaa 540  
 41 caatccaata accagaatac taatgtttagt gatacaattt tagctgtgt tcagaaattt 600  
 42 ggtgttactg acaagcaaaag gtcacgttctt aaatcttagag accgttagtga ctctaaatct 660  
 43 agagacacaa cacctaaaaa cggcaacacaaa cacacctggaa agaaaaactgc aggttagggt 720  
 44 gatgtgacaa atttcttgg tgcttagaagt gcttcggcta actttgttga tagtgcgttc 780  
 45 gttgccaatg gtaacgctgc caaatgctac cctcagatag ccgaatgcgt tccatcagta 840  
 46 tctagcgtgc ttttcgttag tcaatggtcc gctgaagaag ctggagatca agtggaaagtc 900  
 47 acacttactc acaccaacta cctgccaaaaa ggtgatgcca aaaccaggta attcctagaa 960  
 48 cagattgacg cttacaagcg cccttcacaa gtagctaagg aacagaggaa accaaaggcct 1020  
 49 cgctctaagt ctgctgataa gaaggctgag gaattgtctg taactcttgc agaggcatac 1080  
 50 acagatgtgtt ttgatgacac acagggtttagt atgattgtatg aggttacgaa cttaa 1134  
 52 <210> SEQ ID NO: 2  
 53 <211> LENGTH: 377  
 54 <212> TYPE: PRT

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55 <213> ORGANISM: Feline infectious peritonitis virus  
 57 <400> SEQUENCE: 2  
 58 Met Ala Thr Gln Gly Gln Arg Val Asn Trp Gly Asp Glu Pro Ser Lys  
 59 1 5 10 15  
 60 Arg Arg Asp Arg Ser Asn Ser Arg Gly Arg Lys Asn Asn Asn Ile Pro  
 61 20 25 30  
 62 Leu Ser Phe Phe Asn Pro Thr Thr Leu Glu Gln Gly Ala Lys Phe Trp  
 63 35 40 45  
 64 Tyr Val Cys Pro Arg Asp Phe Val Pro Lys Gly Ile Gly Asn Lys Asp  
 65 50 55 60  
 66 Gln Gln Ile Gly Tyr Trp Asn Arg Gln Ala Arg Phe Arg Ile Val Lys  
 67 65 70 75 80  
 68 Gly Gln Arg Lys Glu Leu Pro Glu Arg Trp Phe Phe Tyr Phe Leu Gly  
 69 85 90 95  
 70 Thr Gly Pro His Ala Asp Ala Lys Phe Lys Asp Lys Ile Asp Gly Val  
 71 100 105 110  
 72 Phe Trp Val Ala Lys Asp Gly Ala Met Asn Lys Pro Thr Ser Leu Gly  
 73 115 120 125  
 74 Thr Arg Gly Thr Asn Asn Glu Ser Glu Pro Leu Arg Phe Asp Gly Lys  
 75 130 135 140  
 76 Ile Pro Pro Gln Phe Gln Leu Glu Val Asn Arg Ser Arg Asn Asn Ser  
 77 145 150 155 160  
 78 Arg Ser Gly Ser Gln Ser Arg Ser Gly Ser Arg Asn Arg Ser Gln Ser  
 79 165 170 175  
 80 Arg Gly Arg Gln Gln Ser Asn Asn Gln Asn Thr Asn Val Glu Asp Thr  
 81 180 185 190  
 82 Ile Val Ala Val Leu Gln Lys Leu Gly Val Thr Asp Lys Gln Arg Ser  
 83 195 200 205  
 84 Arg Ser Lys Ser Arg Asp Arg Ser Asp Ser Lys Ser Arg Asp Thr Thr  
 85 210 215 220  
 86 Pro Lys Asn Ala Asn Lys His Thr Trp Lys Lys Thr Ala Gly Lys Gly  
 87 225 230 235 240  
 88 Asp Val Thr Asn Phe Phe Gly Ala Arg Ser Ala Ser Ala Asn Phe Gly  
 89 245 250 255  
 90 Asp Ser Asp Leu Val Ala Asn Gly Asn Ala Ala Lys Cys Tyr Pro Gln  
 91 260 265 270  
 92 Ile Ala Glu Cys Val Pro Ser Val Ser Ser Val Leu Phe Gly Ser Gln  
 93 275 280 285  
 94 Trp Ser Ala Glu Glu Ala Gly Asp Gln Val Lys Val Thr Leu Thr His  
 95 290 295 300  
 96 Thr Tyr Tyr Leu Pro Lys Gly Asp Ala Lys Thr Ser Gln Phe Leu Glu  
 97 305 310 315 320  
 98 Gln Ile Asp Ala Tyr Lys Arg Pro Ser Gln Val Ala Lys Glu Gln Arg  
 99 325 330 335  
 100 Lys Pro Lys Pro Arg Ser Lys Ser Ala Asp Lys Lys Pro Glu Glu Leu  
 101 340 345 350  
 102 Ser Val Thr Leu Val Glu Ala Tyr Thr Asp Val Phe Asp Asp Thr Gln  
 103 355 360 365  
 104 Val Glu Met Ile Asp Glu Val Thr Asn

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Input Set : A:\082368-002100US.txt  
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105	370	375	
108	<210> SEQ ID NO: 3		
109	<211> LENGTH: 30		
110	<212> TYPE: DNA		
111	<213> ORGANISM: Artificial Sequence		
113	<220> FEATURE:		
114	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
116	<400> SEQUENCE: 3		
117	ggggattca attaaaggca actactgcca	30	
119	<210> SEQ ID NO: 4		
120	<211> LENGTH: 41		
121	<212> TYPE: DNA		
122	<213> ORGANISM: Artificial Sequence		
124	<220> FEATURE:		
125	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
127	<400> SEQUENCE: 4		
128	ctgtgaattc tgcaggatcc tttttttttt tttttttttt t	41	
130	<210> SEQ ID NO: 5		
131	<211> LENGTH: 20		
132	<212> TYPE: DNA		
133	<213> ORGANISM: Artificial Sequence		
135	<220> FEATURE:		
136	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
138	<400> SEQUENCE: 5		
139	caactgggaa gatgaacatt	20	
141	<210> SEQ ID NO: 6		
142	<211> LENGTH: 20		
143	<212> TYPE: DNA		
144	<213> ORGANISM: Artificial Sequence		
146	<220> FEATURE:		
147	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
149	<400> SEQUENCE: 6		
150	ggtagcattt ggcagcgtta	20	
152	<210> SEQ ID NO: 7		
153	<211> LENGTH: 22		
154	<212> TYPE: DNA		
155	<213> ORGANISM: Artificial Sequence		
157	<220> FEATURE:		
158	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
160	<400> SEQUENCE: 7		
161	attgatggag tcttcgggt tg	22	
163	<210> SEQ ID NO: 8		
164	<211> LENGTH: 23		
165	<212> TYPE: DNA		
166	<213> ORGANISM: Artificial Sequence		
168	<220> FEATURE:		
169	<223> OTHER INFORMATION: Artificially synthesized primer sequence		
171	<400> SEQUENCE: 8		
172	ttggcattct taggtgttgt gtc	23	

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/520,333

DATE: 01/13/2005

TIME: 17:18:02

Input Set : A:\082368-002100US.txt

Output Set: N:\CRF4\01132005\J520333.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date